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CNAS L0446

GRGTEST

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# Test Report

Verified code: 483816

Report No.: E20241111636501-22EN

Customer: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Climate Sensor W100

Sample Model: TH-S04E

Receive Sample Nov.12,2024  
Date:

Test Date: Nov.15,2024 ~ Nov.21,2024

Reference Document: AS/NZS 2772.2:2016/AMDT 1:2018

Test Result: Pass

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GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-12-17

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## Statement

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4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
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**REPORT ISSUED HISTORY**

Report Version	Report No.	Description	Compile Date
1.0	E20241111636501-22EN	Original Issue	2024-12-10

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## 1 GENERAL DESCRIPTION OF EUT

### 1.1 APPLICANT INFORMATION

Name: Lumi United Technology Co., Ltd  
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 1.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd  
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 1.3 BASIC DESCRIPTION OF EUT

Product Name: Climate Sensor W100  
Product Model: TH-S04E  
Adding Model: TH-S04D  
Model different description: The model No.TH-S04E & TH-S04D have the same technical construction including circuitdiagram,PCB LAYOUT, hardware version and software version identical, except sales area and packaging are different.  
Trade Name: Aqara  
Power supply: DC 3V  
Battery Specification: Button batteries;  
Model: CR2450;  
Nominal Voltage: 3V.  
Frequency Band: 2402MHz-2480MHz for BLE 1M & 2M;  
2405MHz-2480MHz for Zigbee & Thraed.  
Modulation type: GFSK for BLE 1M & 2M;  
O-QPSK for Zigbee & Thraed.  
Antenna Type: PCB Antenna  
Antenna Gain: 1 dBi gain (Max)  
Hardware Version: V12  
Software Version: V0.0.2.0  
Sample submitting way:  Provided by customer  Sampling

Sample No: E20241111636501-0002

Note:

- 1.The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.
2. Based on the differences in models, the model TH-S04E was recorded in this report.

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## 2 LABORATORY AND ACCREDITATIONS

### 2.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District  
Shenzhen, 518110, People's Republic of China.  
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### 2.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

**China** CNAS(L0446)

Copies of granted accreditation certificates are available for downloading from our web site,  
<http://www.grgtest.com>

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### 3 TECHNICAL REQUIREMENTS SPECIFICATION IN

#### 3.1 RF EXPOSURE EVALUATION

If the average power emitted by the apparatus operating in the frequency range 3 kHz to 300 GHz is less than or equal top 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

#### 3.2 EVALUATION RESULTS

Packet	EIRP (dBm)	EIRP (mW)	EIRP Limit(mW)	Result
BLE 1M	8.49	7.06	20	PASS
BLE 2M	8.49	7.06	20	PASS
Zigbee	8.51	7.10	20	PASS
Thread	8.55	7.16	20	PASS

Note:

- 1) The Maximum EIRP Level please refer to RF report.
- 2) According this requirement the SAR-measurement has not to be consider when the sending level is < 20 mW.

### 4 APPENDIX A:PHOTOGRAPH OF THE EUT

Please refer to the attached document E20241111636501-EUT Photo.

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